

MAIL STOP PCT PATENT



Application No.:

10/582,269

PCT Appl. No.:

PCT/JP2004/018143

Applicant:

Yasushi KOBUCHI et al.

Filing Date:

June 9, 2006

Group Art Unit:

Unknown

Title:

SEPARATOR

Docket No.:

2691-000043/US

REQUEST FOR RECORDATION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

MAIL STOP PCT

October 3,

2006 Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Sir:

Applicant attaches hereto an English translation of the International Preliminary Examination Report which has been issued in connection with the above-identified application. Please make this document part of the prosecution history of the present application.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By:

Donald J. Daley, Reg. No. 34,313

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Attachment:

International Preliminary Examination Report

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

SAIKYO, Keiichiro
Shikishima Building, 2-6, Bingomachi 3-chome, Chuo-ku,
Osaka-shi, Osaka
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JAPON
'O 6, 9, 15

Date of mailing (day/month/year)
08 September 2006 (08.09.2006)

Applicant's or agent's file reference 62151CT

International application No. PCT/JP2004/018143

IMPORTANT NOTIFICATION

International filing date (day/month/year)
06 December 2004 (06.12.2004)

Applicant

NITTA CORPORATION et al

 Transmittal of the translation to the appl
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR EURTHER A CTIVAL	S. F. DOTTON					
62151CT	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/018143	06.12.2004	09.12.2003					
	International Patent Classification (IPC) or national classification and IPC						
H01M8/02, 8/10							
Applicant NITHER CORPORATION							
NITTA CORPORATION							
<u> </u>							
This report is the international preliminater Article 35 and transmitted to the control of		is International Preliminary Examining Authority					
2. This REPORT consists of a total of _	8 sheets, include	ding this cover sheet.					
3. This report is also accompanied by Al	NNEXES, comprising:	•					
a. (sent to the applicant and	to the International Bureau) a total of 20	sheets, as follows:					
		n amended and are the basis for this report and/or					
sheets containing red Instructions).	tifications authorized by this Authority (see	Rule 70.16 and Section 607 of the Administrative					
		considers contain an amendment that goes beyond					
Box.	international application as filed, as indicat	ted in item 4 of Box No. I and the Supplemental					
b. (sent to the International I	Bureau only) a total of (indicate type and num	nber of electronic carrier(s))					
	.,						
related thereto, in computer	readable form only, as indicated in the Sup	containing a sequence listing and/or tables plemental Box Relating to Sequence Listing (see					
Section 802 of the Administ							
4. This report contains indications relating	ng to the following items:						
Box No. I Basis of the	report						
Box No. II Priority		:					
Box No. III Non-establi.	shment of opinion with regard to novelty, inv	entive step and industrial applicability					
	ty of invention						
		ovelty, inventive step or industrial applicability:					
	d explanations supporting such statement	· · · · · · · · · · · · · · · · · · ·					
Box No. VI Certain doc	Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report							
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer					
Facsimile No.	Telephone No.	Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018143

Box N	lo. I	Basis of the report		
		d to the language, this report is based on the internation nder this item.	nal application in the language in w	hich it was filed, unless otherwise
.[report is based on translations from the original langua h is the language of a translation furnished for the purp		
		international search (Rule 12.3 and 23.1(b))		•
	닏	publication of the international application (Rule 12.4)	
		international preliminary examination (Rule 55.2 and/	or 55.3)	
,	_	d to the elements of the international application, this Office in response to an invitation under Article 14 are):		-
. [the in	nternational application as originally filed/furnished		•
	the d	escription:		1
	page	2,4,6,16-17,19-23,25-32,34-44,46- 1,3,5,7-9,14-15,18,24,33,45,56-	55	as originally filed/furnished
	page			22.06.2005
	page	S**	received by this Authority on	
	the c	laims:		
	nos.	1,5		as originally filed/furnished
	nos.		as amended (together	with any statement) under Article 19
	nos.			22.06.2005
	nos.		received by this Authority on	<u></u>
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"		trawings:		
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L	aseo	quence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence Lis	sting.
3.	The	amendments have resulted in the cancellation of:	•	
	\boxtimes	the description, pages 10-13, 58		· .
·	\boxtimes	the claims, nos. 12-32		
		the drawings, sheets/figs		
		the sequence listing (specify):	·····	·
		any table(s) related to sequence listing (specify):		
4.1		report has been established as if (some of) the amend have been considered to go beyond the disclosure as fi		
	\boxtimes	the description, pages 4,6		<u> </u>
	\boxtimes	the claims, nos. 1,5		
		the drawings, sheets/figs		
		the sequence listing (specify):		
<u> </u>		any table(s) related to sequence listing (specify):		
*	If item 4 a	pplies, some or all of those sheets may be marked "sup		

${\bf INTERNATIONAL\ PRELIMINARY\ REPORT\ ON\ PATENTABILITY}$

International application No.
PCT/JP2004/018143

Box		it under Article 35(2) with regard to novelty, inventive step or industrial applicability; nations supporting such statement	
1.	Statement		
	Novelty (N)	Claims 2-11	_ YES
		Claims 1	_ NO
	Inventive step (IS)	Claims 6, 11	YES
		Claims 1-5, 7-10	_ NO
	Industrial applicability (IA)	Claims 1-11	YES
		Claims	_ NO
_			
2.	Citations and explanations (Rule		
		00/44059 A1 (Asahi Glass Co., Ltd.), 27	
	•	uly 2000, entire text and fig. 1 to 2 & EP	
		154504 A1, all pages	
		2-168563 A (Ishikawajima Harima Heavy	
1.		nd.), 28 June 1990, claims and fig. 1 to 8	
		crofilm of the specification and drawings	
	a	nnexed to the request of Japanese Utility	
	M	odel Application No. 120977/1986 (Laid-	•
	0	pen No. 28251/1988) (Ishikawajima Harima	
	Н	eavy Ind.), 24 February 1988, claims and	
	f	ig. 1	
	Document 4: JF	2000-243408 A (Toyota Motor Corp.), 08	
	S	eptember 2000, claims, paragraphs [0037]	
	t	o [0039], and fig. 1, 3, 6 and 7 & DE	
	1	9961496 A1, claims and fig. 1, 3, 6 and 7	
	Document 5: JI	2003-151572 A (Hitachi, Ltd.), 23 May	
	2	003, claims and fig. 1	
	Document 6: J	2000-138067 A (Toyota Motor Corp.), 16	,
	M	lay 2000, claims and fig. 1 to 11	
	Document 7: JI	2001-307747 A (Toyota Motor Corp.), 02	
	N	lovember 2001, claims and fig. 1	
	Document 8: JI	2 2001-357859 A (Riken Corp.), 26 December	
	2	2001, claims and fig. 1	

PCT/JP2004/018143

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document 9: JP 2001-351642 A (Riken Corp.), 21 December 2001, claims and fig. 1

Document 10: JP 2003-217611 A (NTN Toyo Bearing Co., Ltd.), 31 July 2003, claims, paragraphs [0021] to [0023] and fig. 2

Claim 1

The invention set forth in claim 1 lacks novelty and does not involve an inventive step in the light of document 1 cited in the international search report.

Document 1 discloses a separator comprising a separation part that separates the flow channel for supplying the fuel gas from the flow channel for supplying the oxidant gas, wherein resin layers (1a and 1b) with flow channels formed therein are provided to the surfaces of the planar metal plate (2) that serves as the core material of the separation part.

Such being the case, document 1 can be said to disclose the invention set forth in claim 1.

Claims 2 and 5

The inventions set forth in claims 2 and 5 do not involve an inventive step in the light of document 1, newly cited documents 2 to 3, document 4 cited in the international search report, and newly cited documents 5 to 7.

Documents 2 to 3 disclose separators comprising a separation part and a seal part with sealing protrusions that have a U-shaped cross section; however, said documents do not disclose the feature wherein resin layers with flow channels formed therein are provided to

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the separation part, or the feature wherein a rubber layer is formed on the surface of the metal plate.

On the other hand, it is not considered to be in any way difficult to employ the configuration disclosed in document 1, wherein resin layers with flow channels formed therein are provided to the separation part, in the inventions disclosed in documents 2 to 3; furthermore, the technical feature wherein a rubber layer is formed on the surface of a metal plate is well known in the technical field in question, as disclosed in documents 4 to 7.

Claims 3 to 4

The inventions set forth in claims 3 to 4 do not involve an inventive step in the light of documents 1 to 7 and newly cited documents 8 to 9.

Fuel cell separators wherein a highly conductive layer is formed upon the region that comes into contact with the electrolyte assembly in order to decrease the contact resistance therebetween can be said to be well known in the technical field in question, as disclosed in documents 8 to 9.

Claims 6 and 11

The inventions set forth in claims 6 and 11 are novel and involve an inventive step in relation to all of the documents that are cited in the international search report.

The inventions set forth in claims 6 and 11 are not disclosed in any of the cited documents, and would not have been easy for even a person skilled in the art to conceive of.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claim 7

The invention set forth in claim 7 does not involve an inventive step in the light of documents 1 to 9.

Documents 8 to 9 indicate that the highly conductive layer is formed from carbon, and it is not considered to be in any way difficult to form a highly conductive carbon layer by spraying a carbon dispersion upon a surface.

Claim 8

The invention set forth in claim 8 does not involve an inventive step in the light of documents 1 to 9 and newly cited document 10.

The technical feature wherein a coating layer is formed upon the surface of the metal plate is well known in the technical field in question, as disclosed in documents 4 to 7 and 10.

Claim 9

The invention set forth in claim 9 does not involve an inventive step in the light of documents 1 to 10.

Documents 4 and 10 indicate that a coating layer is formed upon the surface of a metal plate via a layer that functions as an adhesive layer.

Claim 10

The invention set forth in claim 10 does not involve an inventive step in the light of documents 1 to 10.

Document 10 discloses a feature wherein a coating layer is formed upon the surface of a metal plate via a

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018143

Box N	o. V	Reasoned s	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box I.4

Pages 4 and 6 of the Description

The replacement sheets for pages 4 and 6 of the description, which were received by the International Preliminary Examining Authority on 22 June 2005, amend said pages so as to set forth a "circular form."

On the other hand, although the international application as originally filed sets forth a "U-shaped form, a V-shaped form and a trapezoidal form," said application does not mention a "circular form."

Such being the case, the amendments to pages 4 and 6 of the description, which have been appended to the present report, are considered to go beyond the scope of the disclosures in the present international application as originally filed.

Claims 1 and 5

Likewise, the replacement sheet including claims 1 and 5, which was received by the International Preliminary Examining Authority on 22 June 2005, amends said claims so as to set forth a "circular form."

On the other hand, although the international application as originally filed sets forth a "U-shaped form, a V-shaped form and a trapezoidal form," said application does not mention a "circular form."

Such being the case, the amendments to claims 1 and 5, which have been appended to the present report, are considered to go beyond the scope of the disclosures in the present international application as originally filed.